



**AMERICAN**

Model 9090-DES Locomotive Crane  
 Ratings In Pounds  
 77 H Tubular Boom w/ Hammerhead Tip  
 140,000 lb. Counterweight

**LOAD HOISTING INFORMATION**

MAXIMUM LIFTING CAPACITY - LBS.	MINIMUM PARTS OF LINE	MAXIMUM HOISTING RIGHT HAND DRUM	MAXIMUM HOISTING LEFT HAND DRUM
443,810	12	69'	38'
408,570	11	76'	58'
371,420	10	83'	64'
334,280	9	91'	71'
297,140	8	104'	80'
260,000	7	119'	92'
222,850	6	139'	107'
185,710	5	167'	129'
148,570	4	209'	161'
111,420	3	379'	215'
74,280	2	499'	323'
37,140	1	839'	647'

**BOOM COMPOSITION CHART**

BOOM LENGTH (FEET)	30' 77S INNER	40' 77S CENTER	20' 77S CENTER	50' 77S CENTER	40' 77H OUTER	HAMMER-HEAD TIP
70'	1	0	0	0	1	1
80'	1	1	0	0	1	1
90'	1	0	1	0	1	1
100'	1	1	1	0	1	1

LOAD CHARTS ARE CRANE SPECIFIC  
 REFERENCE ONLY!



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Ratings In Pounds

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BOOM LENGTH	RADIUS	BOOM ANGLE	FREE OVER REAR	OUTRIGGERS SET		FROM BOOM POINT TO GROUND
				OVER SIDE	OVER REAR	
(FEET)		(DEG.)	(POUNDS)	(POUNDS)	(POUNDS)	(FEET)
70' (21.3m) BOOM	16	82.8	443,810*	443,810*	443,810*	78
	20	79.5	382,150	425,630*	425,630*	77
	25	75.4	270,400	302,230	326,200*	76
	30	71.1	208,340	229,140	262,620*	75
	35	66.7	168,940	183,990	220,670*	73
	40	62.2	141,440	153,070	188,670*	70
	50	52.4	105,970	113,840	146,010*	64
	60	41.0	84,020	89,930	118,390*	54
	70	25.6	69,040	73,780	99,140*	38
	80' 24.4m BOOM	17	83.0	443,530*	443,530*	443,530*
20		80.8	381,910	424,870*	424,870*	88
25		77.2	270,110	302,020	325,150*	87
30		73.5	208,050	228,900	263,230*	85
35		69.8	168,650	183,750	219,370*	84
40		65.9	141,140	152,810	188,120*	82
50		57.8	105,670	113,570	145,790*	76
60		48.8	83,730	89,930	118,100*	68
70		38.2	68,810	73,570	99,040*	58
80		23.8	57,870	61,860	84,280*	40
90' 27.4m BOOM	19	82.5	409,480*	409,480*	409,480*	98
	20	81.9	381,620	407,630*	407,630*	98
	25	78.7	269,800	301,770	325,590*	97
	30	75.4	208,500	228,630	261,660*	96
	35	71.1	168,300	183,500	219,140*	94
	40	66.7	141,810	152,520	187,640*	92
	50	61.7	105,350	113,280	145,080*	88
	60	54.2	83,420	89,390	118,000*	81
	70	45.8	68,540	73,320	98,380*	73
	80	35.7	57,620	61,630	84,000*	61
90	22.4	49,320	52,790	72,800*	42	
100' 30.5m BOOM	20	82.7	372,590*	372,590*	372,590*	108
	25	79.8	269,420	301,470	324,390*	107
	30	76.9	207,340	228,300	261,320*	106
	35	73.9	167,990	183,180	219,280*	105
	40	70.9	140,430	152,180	187,650*	103
	50	64.8	104,950	112,920	145,160*	99
	60	58.2	83,050	89,050	117,050*	93
	70	51.2	68,190	73,000	97,790*	86
	80	43.3	57,260	61,300	83,410*	77
	90	34.0	48,980	52,470	72,390*	64
100	21.2	42,480	45,580	63,700*	44	

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